

October 28, 2009

Doug Morell
Golder Associates, Inc.
18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

RE: Avery Landing

Enclosed are the results of analyses for samples received by the laboratory on 09/09/09 11:00.
The following list is a summary of the Work Orders contained in this report, generated on 10/28/09 13:08.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
SSI0046	Avery Landing	073-93312-03

TestAmerica Spokane



Randee Decker, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G-GA1-21-082609	SSI0046-01	Soil	08/26/09 15:15	09/09/09 11:00
Trip Blank	SSI0046-02	Other (S)	09/08/09 00:00	09/09/09 11:00
G-GA3-20-082608	SSI0046-03	Soil	08/26/09 10:00	09/09/09 11:00
GA-D2-082609	SSI0046-04	Soil	08/26/09 10:00	09/09/09 11:00
G-GA-D-082609	SSI0046-05	Soil	08/26/09 15:15	09/09/09 11:00

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.	Project Name: Avery Landing	Report Created:
18300 NE Union Hill Rd. Suite 200	Project Number: 073-93312-03	10/28/09 13:08
Redmond, WA 98077	Project Manager: Doug Morell	

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil					Sampled: 08/26/09 15:15			H8
Diesel Range Hydrocarbons	NWTPH-Dx	37.1	----	11.2	mg/kg dry	1x	9090070	09/10/09 14:30	09/13/09 18:59	
Heavy Oil Range Hydrocarbons	"	73.0	----	28.1	"	"	"	"	"	
Surrogate(s): 2-FBP		96.9%				50 - 150 %	"		"	
p-Terphenyl-d14		119%				50 - 150 %	"		"	
SSI0046-03 (G-GA3-20-082608)		Soil					Sampled: 08/26/09 10:00			H8
Diesel Range Hydrocarbons	NWTPH-Dx	22.9	----	11.4	mg/kg dry	1x	9090070	09/10/09 14:30	09/16/09 20:59	
Heavy Oil Range Hydrocarbons	"	70.7	----	28.5	"	"	"	"	"	
Surrogate(s): 2-FBP		93.0%				50 - 150 %	"		"	
p-Terphenyl-d14		125%				50 - 150 %	"		"	
SSI0046-04 (GA-D2-082609)		Soil					Sampled: 08/26/09 10:00			H8
Diesel Range Hydrocarbons	NWTPH-Dx	39.4	----	11.3	mg/kg dry	1x	9090070	09/10/09 14:30	09/16/09 21:23	
Heavy Oil Range Hydrocarbons	"	119	----	28.2	"	"	"	"	"	
Surrogate(s): 2-FBP		95.2%				50 - 150 %	"		"	
p-Terphenyl-d14		123%				50 - 150 %	"		"	
SSI0046-05 (G-GA-D-082609)		Soil					Sampled: 08/26/09 15:15			H8
Diesel Range Hydrocarbons	NWTPH-Dx	50.1	----	11.2	mg/kg dry	1x	9090070	09/10/09 14:30	09/16/09 21:46	
Heavy Oil Range Hydrocarbons	"	88.1	----	28.1	"	"	"	"	"	
Surrogate(s): 2-FBP		87.1%				50 - 150 %	"		"	
p-Terphenyl-d14		111%				50 - 150 %	"		"	

TestAmerica Spokane



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Golder Associates, Inc.

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Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polychlorinated Biphenyls by EPA Method 8082
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil		Sampled: 08/26/09 15:15						
PCB-1016	EPA 8082	ND	----	9.89	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 09:18	
PCB-1221	"	ND	----	9.89	"	"	"	"	"	
PCB-1232	"	ND	----	9.89	"	"	"	"	"	
PCB-1242	"	ND	----	9.89	"	"	"	"	"	
PCB-1248	"	ND	----	9.89	"	"	"	"	"	
PCB-1254	"	ND	----	9.89	"	"	"	"	"	
PCB-1260	"	ND	----	9.89	"	"	"	"	"	
Surrogate(s): TCX		89.0%		27.9 - 154 %		"		"		
Decachlorobiphenyl		71.7%		35 - 157 %		"		"		
SSI0046-03 (G-GA3-20-082608)		Soil		Sampled: 08/26/09 10:00						
PCB-1016	EPA 8082	ND	----	9.59	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 09:41	
PCB-1221	"	ND	----	9.59	"	"	"	"	"	
PCB-1232	"	ND	----	9.59	"	"	"	"	"	
PCB-1242	"	ND	----	9.59	"	"	"	"	"	
PCB-1248	"	ND	----	9.59	"	"	"	"	"	
PCB-1254	"	ND	----	9.59	"	"	"	"	"	
PCB-1260	"	ND	----	9.59	"	"	"	"	"	
Surrogate(s): TCX		95.7%		27.9 - 154 %		"		"		
Decachlorobiphenyl		73.0%		35 - 157 %		"		"		
SSI0046-04 (GA-D2-082609)		Soil		Sampled: 08/26/09 10:00						
PCB-1016	EPA 8082	ND	----	9.93	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 10:03	
PCB-1221	"	ND	----	9.93	"	"	"	"	"	
PCB-1232	"	ND	----	9.93	"	"	"	"	"	
PCB-1242	"	ND	----	9.93	"	"	"	"	"	
PCB-1248	"	ND	----	9.93	"	"	"	"	"	
PCB-1254	"	ND	----	9.93	"	"	"	"	"	
PCB-1260	"	ND	----	9.93	"	"	"	"	"	
Surrogate(s): TCX		88.4%		27.9 - 154 %		"		"		
Decachlorobiphenyl		71.1%		35 - 157 %		"		"		

TestAmerica Spokane



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Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-05 (G-GA-D-082609)		Soil		Sampled: 08/26/09 15:15						
PCB-1016	EPA 8082	ND	----	9.89	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 10:26	
PCB-1221	"	ND	----	9.89	"	"	"	"	"	
PCB-1232	"	ND	----	9.89	"	"	"	"	"	
PCB-1242	"	ND	----	9.89	"	"	"	"	"	
PCB-1248	"	ND	----	9.89	"	"	"	"	"	
PCB-1254	"	ND	----	9.89	"	"	"	"	"	
PCB-1260	"	ND	----	9.89	"	"	"	"	"	
Surrogate(s): TCX		68.0%		27.9 - 154 %		"		"		
Decachlorobiphenyl		60.5%		35 - 157 %		"		"		

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Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08


Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil		Sampled: 08/26/09 15:15						H8
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.00449	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 20:34	
2-Methylnaphthalene	"	ND	----	0.00449	"	"	"	"	"	
Acenaphthene	"	ND	----	0.00449	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.00449	"	"	"	"	"	
Anthracene	"	0.00499	----	0.00449	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.00449	"	"	"	"	"	
Chrysene	"	ND	----	0.00449	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.00449	"	"	"	"	"	
Fluoranthene	"	ND	----	0.00449	"	"	"	"	"	
Fluorene	"	0.00499	----	0.00449	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.00449	"	"	"	"	"	
Naphthalene	"	ND	----	0.00449	"	"	"	"	"	
Phenanthrene	"	ND	----	0.00449	"	"	"	"	"	
Pyrene	"	ND	----	0.00449	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>		76.0%		38.8 - 139 %		"		"		
<i>2-FBP</i>		84.2%		40 - 132 %		"		"		
<i>p-Terphenyl-d14</i>		98.6%		31.7 - 179 %		"		"		

SSI0046-03 (G-GA3-20-082608)		Soil		Sampled: 08/26/09 10:00						H8
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.00457	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 20:12	
2-Methylnaphthalene	"	ND	----	0.00457	"	"	"	"	"	
Acenaphthene	"	ND	----	0.00457	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.00457	"	"	"	"	"	
Anthracene	"	ND	----	0.00457	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.00457	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.00457	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.00457	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.00457	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.00457	"	"	"	"	"	
Chrysene	"	ND	----	0.00457	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.00457	"	"	"	"	"	
Fluoranthene	"	ND	----	0.00457	"	"	"	"	"	
Fluorene	"	ND	----	0.00457	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.00457	"	"	"	"	"	

TestAmerica Spokane

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Randee Decker, Project Manager



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-03 (G-GA3-20-082608)		Soil					Sampled: 08/26/09 10:00			H8
Naphthalene	EPA 8270 mod.	ND	----	0.00457	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 20:12	
Phenanthrene	"	ND	----	0.00457	"	"	"	"	"	
Pyrene	"	ND	----	0.00457	"	"	"	"	"	
Surrogate(s): Nitrobenzene-d5		71.8%			38.8 - 139 %	"			"	
2-FBP		74.6%			40 - 132 %	"			"	
p-Terphenyl-d14		87.4%			31.7 - 179 %	"			"	
SSI0046-04 (GA-D2-082609)		Soil					Sampled: 08/26/09 10:00			H8
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.00451	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 19:51	
2-Methylnaphthalene	"	ND	----	0.00451	"	"	"	"	"	
Acenaphthene	"	ND	----	0.00451	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.00451	"	"	"	"	"	
Anthracene	"	ND	----	0.00451	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.00451	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.00451	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.00451	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.00451	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.00451	"	"	"	"	"	
Chrysene	"	0.00652	----	0.00451	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.00451	"	"	"	"	"	
Fluoranthene	"	ND	----	0.00451	"	"	"	"	"	
Fluorene	"	ND	----	0.00451	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.00451	"	"	"	"	"	
Naphthalene	"	ND	----	0.00451	"	"	"	"	"	
Phenanthrene	"	ND	----	0.00451	"	"	"	"	"	
Pyrene	"	0.00752	----	0.00451	"	"	"	"	"	
Surrogate(s): Nitrobenzene-d5		69.8%			38.8 - 139 %	"			"	
2-FBP		76.8%			40 - 132 %	"			"	
p-Terphenyl-d14		87.6%			31.7 - 179 %	"			"	

TestAmerica Spokane



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18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-05 (G-GA-D-082609)		Soil		Sampled: 08/26/09 15:15					H8	
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.00449	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 19:29	
2-Methylnaphthalene	"	ND	----	0.00449	"	"	"	"	"	
Acenaphthene	"	ND	----	0.00449	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.00449	"	"	"	"	"	
Anthracene	"	0.00749	----	0.00449	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.00449	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.00449	"	"	"	"	"	
Chrysene	"	0.00549	----	0.00449	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.00449	"	"	"	"	"	
Fluoranthene	"	ND	----	0.00449	"	"	"	"	"	
Fluorene	"	0.00599	----	0.00449	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	0.00449	----	0.00449	"	"	"	"	"	
Naphthalene	"	ND	----	0.00449	"	"	"	"	"	
Phenanthrene	"	ND	----	0.00449	"	"	"	"	"	
Pyrene	"	0.00649	----	0.00449	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>		<i>58.6%</i>		<i>38.8 - 139 %</i>		<i>"</i>		<i>"</i>		
<i>2-FBP</i>		<i>60.4%</i>		<i>40 - 132 %</i>		<i>"</i>		<i>"</i>		
<i>p-Terphenyl-d14</i>		<i>104%</i>		<i>31.7 - 179 %</i>		<i>"</i>		<i>"</i>		

TestAmerica Spokane



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18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Conventional Chemistry Parameters by APHA/EPA Methods
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil								Sampled: 08/26/09 15:15
% Solids	TA SOP	89.0	----	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	
SSI0046-03 (G-GA3-20-082608)		Soil								Sampled: 08/26/09 10:00
% Solids	TA SOP	87.6	----	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	
SSI0046-04 (GA-D2-082609)		Soil								Sampled: 08/26/09 10:00
% Solids	TA SOP	88.6	----	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	
SSI0046-05 (G-GA-D-082609)		Soil								Sampled: 08/26/09 15:15
% Solids	TA SOP	89.0	----	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	

TestAmerica Spokane



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Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS)
TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-02 (Trip Blank)			Other (S)				Sampled: 09/08/09 00:00			
Dichlorodifluoromethane	8260B STD	ND	8.0	40	ug/Kg	1x	50920	09/25/09 16:16	09/25/09 22:34	H
Chloromethane	"	ND	60	400	"	"	"	"	"	H
Vinyl chloride	"	ND	1.7	8.0	"	"	"	"	"	H
Bromomethane	"	ND	25	140	"	"	"	"	"	H
Chloroethane	"	ND	23	400	"	"	"	"	"	H
Trichlorofluoromethane	"	ND	5.0	40	"	"	"	"	"	H
1,1-Dichloroethene	"	ND	5.0	20	"	"	"	"	"	H
Methylene Chloride	"	ND	3.8	40	"	"	"	"	"	H
trans-1,2-Dichloroethene	"	ND	3.5	40	"	"	"	"	"	H
1,1-Dichloroethane	"	ND	3.8	40	"	"	"	"	"	H
2,2-Dichloropropane	"	ND	3.7	40	"	"	"	"	"	H
cis-1,2-Dichloroethene	"	ND	2.4	40	"	"	"	"	"	H
Chlorobromomethane	"	ND	12	40	"	"	"	"	"	H
Chloroform	"	ND	2.1	40	"	"	"	"	"	H
1,1,1-Trichloroethane	"	ND	5.0	40	"	"	"	"	"	H
Carbon tetrachloride	"	ND	3.7	20	"	"	"	"	"	H
1,1-Dichloropropene	"	ND	1.8	40	"	"	"	"	"	H
Benzene	"	ND	2.5	16	"	"	"	"	"	H
1,2-Dichloroethane	"	ND	2.2	40	"	"	"	"	"	H
Trichloroethene	"	ND	3.4	16	"	"	"	"	"	H
1,2-Dichloropropane	"	ND	3.9	12	"	"	"	"	"	H, *
Dibromomethane	"	ND	4.0	40	"	"	"	"	"	H
Dichlorobromomethane	"	ND	3.0	40	"	"	"	"	"	H
cis-1,3-Dichloropropene	"	ND	2.4	16	"	"	"	"	"	H
Toluene	"	ND	2.4	40	"	"	"	"	"	H
trans-1,3-Dichloropropene	"	ND	4.0	16	"	"	"	"	"	H
1,1,2-Trichloroethane	"	ND	1.8	12	"	"	"	"	"	H
Tetrachloroethene	"	ND	2.1	20	"	"	"	"	"	H
1,3-Dichloropropane	"	ND	5.0	40	"	"	"	"	"	H
Chlorodibromomethane	"	ND	8.0	40	"	"	"	"	"	H
Ethylene Dibromide	"	ND	3.2	40	"	"	"	"	"	H
Chlorobenzene	"	ND	2.3	40	"	"	"	"	"	H
Ethylbenzene	"	ND	3.7	40	"	"	"	"	"	H
1,1,1,2-Tetrachloroethane	"	ND	4.8	40	"	"	"	"	"	H
1,1,2,2-Tetrachloroethane	"	ND	3.3	10	"	"	"	"	"	H
m-Xylene & p-Xylene	"	ND	7.8	40	"	"	"	"	"	H
o-Xylene	"	ND	2.3	40	"	"	"	"	"	H
Styrene	"	ND	3.8	40	"	"	"	"	"	H

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS)
TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-02 (Trip Blank)			Other (S)				Sampled: 09/08/09 00:00			
Bromoform	8260B STD	ND	11	40	ug/Kg	1x	50920	09/25/09 16:16	09/25/09 22:34	H
Isopropylbenzene	"	ND	1.8	40	"	"	"	"	"	H
Bromobenzene	"	ND	2.7	40	"	"	"	"	"	H
N-Propylbenzene	"	ND	2.8	40	"	"	"	"	"	H
1,2,3-Trichloropropane	"	ND	12	40	"	"	"	"	"	H
2-Chlorotoluene	"	ND	5.4	40	"	"	"	"	"	H
1,3,5-Trimethylbenzene	"	ND	4.2	40	"	"	"	"	"	H
4-Chlorotoluene	"	ND	13	40	"	"	"	"	"	H
tert-Butylbenzene	"	ND	3.2	40	"	"	"	"	"	H
1,2,4-Trimethylbenzene	"	ND	2.1	40	"	"	"	"	"	H
sec-Butylbenzene	"	ND	5.0	40	"	"	"	"	"	H
1,3-Dichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
4-Isopropyltoluene	"	ND	2.8	40	"	"	"	"	"	H
1,4-Dichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
n-Butylbenzene	"	ND	7.3	40	"	"	"	"	"	H
1,2-Dichlorobenzene	"	ND	2.6	40	"	"	"	"	"	H
1,2-Dibromo-3-Chloropropane	"	ND	66	200	"	"	"	"	"	H
1,2,4-Trichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
1,2,3-Trichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
Hexachlorobutadiene	"	ND	5.6	40	"	"	"	"	"	H
Naphthalene	"	ND	6.0	40	"	"	"	"	"	H
Surrogate(s):	Fluorobenzene (Surr)		102%		75 - 125 %	"			"	
	Toluene-d8 (Surr)		98%		85 - 115 %	"			"	
	Ethylbenzene-d10		102%		75 - 125 %	"			"	
	4-Bromofluorobenzene (Surr)		99%		85 - 120 %	"			"	
	Trifluorotoluene (Surr)		92%		75 - 125 %	"			"	

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

TestAmerica Spokane

QC Batch: 9090070

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9090070-BLK1)							Extracted: 09/10/09 14:30							
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	09/16/09 11:26	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery:	88.1%	Limits: 50-150%		"								09/16/09 11:26
p-Terphenyl-d14			110%	50-150%		"								"
LCS (9090070-BS1)							Extracted: 09/10/09 14:30							
Diesel Range Hydrocarbons	NWTPH-Dx	61.1	---	10.0	mg/kg wet	1x	--	83.3	73.4%	(73-133)	--	--	09/16/09 11:50	
Surrogate(s): 2-FBP		Recovery:	94.5%	Limits: 50-150%		"								09/16/09 11:50
p-Terphenyl-d14			107%	50-150%		"								"
Duplicate (9090070-DUP1)				QC Source: SSH0168-24				Extracted: 09/10/09 14:30						
Diesel Range Hydrocarbons	NWTPH-Dx	1820	---	34.8	mg/kg dry	1x	1790	--	--	--	1.21% (40)	--	09/16/09 22:34	
Heavy Oil Range Hydrocarbons	"	2050	---	87.1	"	"	2050	--	--	--	0.0467%	"	"	
Surrogate(s): 2-FBP		Recovery:	111%	Limits: 50-150%		"								09/16/09 22:34
p-Terphenyl-d14			117%	50-150%		"								"
Matrix Spike (9090070-MS1)				QC Source: SSH0168-24				Extracted: 09/10/09 14:30						
Diesel Range Hydrocarbons	NWTPH-Dx	2470	---	34.8	mg/kg dry	1x	1790	290	235%	(70.1-139)	--	--	09/16/09 22:57	MHA
Surrogate(s): 2-FBP		Recovery:	118%	Limits: 50-150%		"								09/16/09 22:57
p-Terphenyl-d14			118%	50-150%		"								"

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Spokane

QC Batch: 9090142

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9090142-BLK1)							Extracted: 09/21/09 13:29							
PCB-1016	EPA 8082	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	09/24/09 08:32	
PCB-1221	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
PCB-1232	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
PCB-1242	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
PCB-1248	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
PCB-1254	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
PCB-1260	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		Recovery:	106%	Limits: 27.9-154%		"		09/24/09 08:32						
Decachlorobiphenyl			90.8%	35-157%		"		"						
LCS (9090142-BS1)							Extracted: 09/21/09 13:29							
PCB-1016	EPA 8082	186	---	10.0	ug/kg wet	1x	--	167	111%	(63.1-147)	--	--	09/24/09 08:55	
PCB-1260	"	190	---	10.0	"	"	--	"	114%	(74.4-130)	--	--	"	
Surrogate(s): TCX		Recovery:	112%	Limits: 27.9-154%		"		09/24/09 08:55						
Decachlorobiphenyl			98.0%	35-157%		"		"						
Matrix Spike (9090142-MS1)				QC Source: SSI0046-05			Extracted: 09/21/09 13:29							
PCB-1016	EPA 8082	140	---	9.89	ug/kg dry	1x	ND	187	74.9%	(50.6-145)	--	--	09/24/09 10:49	
PCB-1260	"	122	---	9.89	"	"	ND	"	65.4%	(57.6-120)	--	--	"	
Surrogate(s): TCX		Recovery:	76.7%	Limits: 27.9-154%		"		09/24/09 10:49						
Decachlorobiphenyl			62.5%	35-157%		"		"						
Matrix Spike Dup (9090142-MSD1)				QC Source: SSI0046-05			Extracted: 09/21/09 13:29							
PCB-1016	EPA 8082	147	---	9.89	ug/kg dry	1x	ND	187	78.4%	(50.6-145)	4.51%	(40)	09/24/09 11:12	
PCB-1260	"	123	---	9.89	"	"	ND	"	65.8%	(57.6-120)	0.624%	(27.4)	"	
Surrogate(s): TCX		Recovery:	85.0%	Limits: 27.9-154%		"		09/24/09 11:12						
Decachlorobiphenyl			63.7%	35-157%		"		"						

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results

TestAmerica Spokane

QC Batch: 9090060

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9090060-BLK1)

Extracted: 09/10/09 09:59

1-Methylnaphthalene	EPA 8270 mod.	ND	---	0.00467	mg/kg wet	1x	--	--	--	--	--	--	09/14/09 16:07	
2-Methylnaphthalene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Acenaphthene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.00467	"	"	--	--	--	--	--	--	"	

Surrogate(s): Nitrobenzene-d5	Recovery: 49.6%	Limits: 38.8-139%	"	09/14/09 16:07
2-FBP	56.6%	40-132%	"	"
p-Terphenyl-d14	72.4%	31.7-179%	"	"

LCS (9090060-BS1)

Extracted: 09/10/09 09:59

Chrysene	EPA 8270 mod.	0.352	---	0.00667	mg/kg wet	1x	--	0.444	79.1%	(47.8-120)	--	--	09/14/09 18:40	
Fluorene	"	0.292	---	0.00667	"	"	--	"	65.7%	(50.9-120)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.336	---	0.00667	"	"	--	"	75.6%	(39.5-120)	--	--	"	
Naphthalene	"	0.260	---	0.00667	"	"	--	"	58.6%	(39.2-120)	--	--	"	

Surrogate(s): Nitrobenzene-d5	Recovery: 64.8%	Limits: 38.8-139%	"	09/14/09 18:40
2-FBP	69.4%	40-132%	"	"
p-Terphenyl-d14	84.6%	31.7-179%	"	"

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results

TestAmerica Spokane

QC Batch: 9090060

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9090060-MS1)			QC Source: SSH0168-24					Extracted: 09/10/09 09:59						
Chrysene	EPA 8270 mod.	0.369	---	0.00774	mg/kg dry	1x	0.0733	0.516	57.2%	(31.6-132)	--	--	09/15/09 20:17	
Fluorene	"	0.222	---	0.00774	"	"	0.184	"	7.40%	(43.4-123)	--	--	"	M8
Indeno (1,2,3-cd) pyrene	"	0.292	---	0.00774	"	"	0.0155	"	53.5%	(28.3-147)	--	--	"	
Naphthalene	"	0.490	---	0.00774	"	"	0.109	"	73.8%	(30.9-120)	--	--	"	
Surrogate(s): Nitrobenzene-d5		Recovery:	104%	Limits: 38.8-139%		"	09/15/09 20:17							
2-FBP			20.6%	40-132%		"	"							Z
p-Terphenyl-d14			116%	31.7-179%		"	"							
Matrix Spike Dup (9090060-MSD1)			QC Source: SSH0168-24					Extracted: 09/10/09 09:59						
Chrysene	EPA 8270 mod.	0.370	---	0.00774	mg/kg dry	1x	0.0733	0.516	57.4%	(31.6-132)	0.280% (30.2)		09/15/09 20:39	
Fluorene	"	0.470	---	0.00774	"	"	0.184	"	55.4%	(43.4-123)	71.6% (36)		"	R
Indeno (1,2,3-cd) pyrene	"	0.294	---	0.00774	"	"	0.0155	"	53.9%	(28.3-147)	0.705% (32.7)		"	
Naphthalene	"	0.426	---	0.00774	"	"	0.109	"	61.3%	(30.9-120)	14.1% (35.6)		"	
Surrogate(s): Nitrobenzene-d5		Recovery:	148%	Limits: 38.8-139%		"	09/15/09 20:39							ZX
2-FBP			40.2%	40-132%		"	"							
p-Terphenyl-d14			110%	31.7-179%		"	"							

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.	Project Name: Avery Landing	
18300 NE Union Hill Rd. Suite 200	Project Number: 073-93312-03	Report Created:
Redmond, WA 98077	Project Manager: Doug Morell	10/28/09 13:08

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
TestAmerica Spokane

QC Batch: 9090098 Soil Preparation Method: Wet Chem

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (9090098-DUP1)			QC Source: SSI0046-05					Extracted: 09/10/09 10:10						
% Solids	TA SOP	89.3	---	0.0100	% by Weight	1x	89.0	--	--	--	0.337%	(5)	09/10/09 15:00	

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 50920

Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-50930-3)			QC Source:				Extracted: 09/25/09 16:16							
Dichlorodifluoromethane	8260B STD	ND	8.0	40	ug/Kg	1x	--	--	--	--	--	--	09/25/09 20:10	
Chloromethane	"	ND	60	400	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	1.7	8.0	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	25	140	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	23	400	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	5.0	20	"	"	--	--	--	--	--	--	"	
Methylene Chloride	"	ND	3.8	40	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	3.5	40	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	3.8	40	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	3.7	40	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	2.4	40	"	"	--	--	--	--	--	--	"	
Chlorobromomethane	"	ND	12	40	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	2.1	40	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	3.7	20	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	1.8	40	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	2.5	16	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	2.2	40	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	3.4	16	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	3.9	12	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	4.0	40	"	"	--	--	--	--	--	--	"	
Dichlorobromomethane	"	ND	3.0	40	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	2.4	16	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	2.4	40	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	4.0	16	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	1.8	12	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	2.1	20	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
Chlorodibromomethane	"	ND	8.0	40	"	"	--	--	--	--	--	--	"	
Ethylene Dibromide	"	ND	3.2	40	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	2.3	40	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	3.7	40	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	4.8	40	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	3.3	10	"	"	--	--	--	--	--	--	"	
m-Xylene & p-Xylene	"	ND	7.8	40	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	2.3	40	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	3.8	40	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	11	40	"	"	--	--	--	--	--	--	"	

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 50920

Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (580-50930-3)

QC Source:

Extracted: 09/25/09 16:16

Isopropylbenzene	8260B STD	ND	1.8	40	ug/Kg	1x	--	--	--	--	--	--	09/25/09 20:10	
Bromobenzene	"	ND	2.7	40	"	"	--	--	--	--	--	--	"	
N-Propylbenzene	"	ND	2.8	40	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	12	40	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	5.4	40	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	4.2	40	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	13	40	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	3.2	40	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	2.1	40	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
4-Isopropyltoluene	"	ND	2.8	40	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	7.3	40	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	2.6	40	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-Chloropropane	"	ND	66	200	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	5.0	40	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	5.6	40	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	6.0	40	"	"	--	--	--	--	--	--	"	

Surrogate(s):	Fluorobenzene (Surr)	Recovery:	100%	Limits:	75-125%	"							09/25/09 20:10	
	Toluene-d8 (Surr)		96%		85-115%	"							"	
	Ethylbenzene-d10		101%		75-125%	"							"	
	4-Bromofluorobenzene (Surr)		97%		85-120%	"							"	
	Trifluorotoluene (Surr)		98%		75-125%	"							"	

LCS (580-50930-4)

QC Source:

Extracted: 09/25/09 16:16

Dichlorodifluoromethane	8260B STD	821	8.0	40	ug/Kg	1x	--	787	104%	(35-135)	--	--	09/25/09 20:34	
Chloromethane	"	724	60	400	"	"	--	800	90%	(50-130)	--	--	"	
Vinyl chloride	"	798	1.7	8.0	"	"	--	"	100%	(60-125)	--	--	"	
Bromomethane	"	408	25	140	"	"	--	"	51%	(30-160)	--	--	"	
Chloroethane	"	452	23	400	"	"	--	802	56%	(40-155)	--	--	"	
Trichlorofluoromethane	"	877	5.0	40	"	"	--	792	111%	(25-185)	--	--	"	
1,1-Dichloroethene	"	927	5.0	20	"	"	--	"	117%	(65-135)	--	--	"	
Methylene Chloride	"	837	3.8	40	"	"	--	800	105%	(55-140)	--	--	"	
trans-1,2-Dichloroethene	"	873	3.5	40	"	"	--	"	109%	(65-135)	--	--	"	
1,1-Dichloroethane	"	866	3.8	40	"	"	--	797	109%	(75-125)	--	--	"	
2,2-Dichloropropane	"	908	3.7	40	"	"	--	800	114%	(65-135)	--	--	"	
cis-1,2-Dichloroethene	"	876	2.4	40	"	"	--	"	109%	(65-125)	--	--	"	
Chlorobromomethane	"	801	12	40	"	"	--	794	101%	(70-125)	--	--	"	

TestAmerica Spokane

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Randee Decker, Project Manager



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 50920

Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (580-50930-4)			QC Source:				Extracted: 09/25/09 16:16							
Chloroform	"	745	2.1	40	"	"	--	799	93%	"	--	--	"	
1,1,1-Trichloroethane	"	765	5.0	40	"	"	--	800	96%	(70-135)	--	--	"	
Carbon tetrachloride	"	754	3.7	20	"	"	--	"	94%	(65-135)	--	--	"	
1,1-Dichloropropene	"	861	1.8	40	"	"	--	796	108%	(70-135)	--	--	"	
Benzene	"	867	2.5	16	"	"	--	800	108%	(75-125)	--	--	"	
1,2-Dichloroethane	"	795	2.2	40	"	"	--	"	99%	(70-135)	--	--	"	
Trichloroethene	"	867	3.4	16	"	"	--	801	108%	(75-125)	--	--	"	
1,2-Dichloropropane	"	980	3.9	12	"	"	--	800	122%	(70-120)	--	--	"	*
Dibromomethane	"	781	4.0	40	"	"	--	789	99%	(75-130)	--	--	"	
Dichlorobromomethane	"	667	3.0	40	"	"	--	800	83%	(70-130)	--	--	"	
cis-1,3-Dichloropropene	"	699	2.4	16	"	"	--	841	83%	(70-125)	--	--	"	
Toluene	"	814	2.4	40	"	"	--	800	102%	"	--	--	"	
trans-1,3-Dichloropropene	"	654	4.0	16	"	"	--	760	86%	(65-125)	--	--	"	
1,1,2-Trichloroethane	"	695	1.8	12	"	"	--	789	88%	(60-125)	--	--	"	
Tetrachloroethene	"	923	2.1	20	"	"	--	801	115%	(65-140)	--	--	"	
1,3-Dichloropropane	"	785	5.0	40	"	"	--	796	99%	(75-125)	--	--	"	
Chlorodibromomethane	"	637	8.0	40	"	"	--	784	81%	(65-130)	--	--	"	
Ethylene Dibromide	"	694	3.2	40	"	"	--	792	88%	(70-125)	--	--	"	
Chlorobenzene	"	746	2.3	40	"	"	--	800	93%	(75-125)	--	--	"	
Ethylbenzene	"	872	3.7	40	"	"	--	"	109%	"	--	--	"	
1,1,1,2-Tetrachloroethane	"	756	4.8	40	"	"	--	787	96%	"	--	--	"	
1,1,2,2-Tetrachloroethane	"	633	3.3	10	"	"	--	"	80%	(55-130)	--	--	"	
m-Xylene & p-Xylene	"	1540	7.8	40	"	"	--	1600	96%	(80-125)	--	--	"	
o-Xylene	"	766	2.3	40	"	"	--	792	97%	(75-125)	--	--	"	
Styrene	"	824	3.8	40	"	"	--	798	103%	"	--	--	"	
Bromoform	"	594	11	40	"	"	--	794	75%	(55-135)	--	--	"	
Isopropylbenzene	"	713	1.8	40	"	"	--	800	89%	(75-130)	--	--	"	
Bromobenzene	"	822	2.7	40	"	"	--	797	103%	(65-120)	--	--	"	
N-Propylbenzene	"	756	2.8	40	"	"	--	801	94%	(65-135)	--	--	"	
1,2,3-Trichloropropane	"	790	12	40	"	"	--	788	100%	(65-130)	--	--	"	
2-Chlorotoluene	"	861	5.4	40	"	"	--	791	109%	(70-130)	--	--	"	
1,3,5-Trimethylbenzene	"	823	4.2	40	"	"	--	"	104%	(65-135)	--	--	"	
4-Chlorotoluene	"	794	13	40	"	"	--	788	101%	(75-125)	--	--	"	
tert-Butylbenzene	"	813	3.2	40	"	"	--	792	103%	(65-130)	--	--	"	
1,2,4-Trimethylbenzene	"	817	2.1	40	"	"	--	796	103%	(65-135)	--	--	"	
sec-Butylbenzene	"	844	5.0	40	"	"	--	801	105%	(65-130)	--	--	"	
1,3-Dichlorobenzene	"	862	5.0	40	"	"	--	799	108%	(70-125)	--	--	"	
4-Isopropyltoluene	"	839	2.8	40	"	"	--	796	105%	(75-135)	--	--	"	
1,4-Dichlorobenzene	"	778	5.0	40	"	"	--	800	97%	(70-125)	--	--	"	

TestAmerica Spokane

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Randee Decker

Randee Decker, Project Manager



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 50920

Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (580-50930-4)			QC Source:					Extracted: 09/25/09 16:16						
n-Butylbenzene	8260B STD	882	7.3	40	ug/Kg	1x	--	796	111%	(65-140)	--	--	09/25/09 20:34	
1,2-Dichlorobenzene	"	753	2.6	40	"	"	--	799	94%	(75-120)	--	--	"	
1,2-Dibromo-3-Chloropropane	"	588	66	200	"	"	--	800	74%	(40-135)	--	--	"	
1,2,4-Trichlorobenzene	"	789	5.0	40	"	"	--	795	99%	(65-130)	--	--	"	
1,2,3-Trichlorobenzene	"	775	5.0	40	"	"	--	801	97%	(60-135)	--	--	"	
Hexachlorobutadiene	"	860	5.6	40	"	"	--	785	110%	(55-140)	--	--	"	
Naphthalene	"	711	6.0	40	"	"	--	801	89%	(40-125)	--	--	"	
Surrogate(s):	Fluorobenzene (Surr)	Recovery:	101%	Limits:	75-125%	"							09/25/09 20:34	
	Toluene-d8 (Surr)		102%		85-115%	"							"	
	Ethylbenzene-d10		95%		75-125%	"							"	
	4-Bromofluorobenzene (Surr)		100%		85-120%	"							"	
	Trifluorotoluene (Surr)		93%		75-125%	"							"	

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

CERTIFICATION SUMMARY

Subcontracted Laboratories

TestAmerica Tacoma

5755 8th Street East - Tacoma, WA 98424

Method Performed: 8260B STD

Samples: SSI0046-02

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Spokane



Randee Decker, Project Manager

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Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Notes and Definitions

Report Specific Notes:

- * - LCS or LCSD exceeds the control limits
- H - Sample was prepped or analyzed beyond the specified holding time
- H8 - The sample was extracted past the holding time.
- M8 - The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- R - The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- Z - Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Spokane



Randee Decker, Project Manager

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Test America Cooler Receipt Form

WORK ORDER # SSI0046 CLIENT: Golden PROJECT: Avery
Date /Time Cooler Arrived 9/9/09 11 00 Cooler signed for by: C. Hansen
(Print name)

Preliminary Examination Phase:

Date cooler opened: ☒ same as date received or / /

Cooler opened by (print) C. Hansen (sign) [Signature]

1. Delivered by ☐ ALASKA AIRLINES ☒ Fed-Ex ☐ UPS ☐ NAC ☐ LYNDEN ☐ CLIENT ☐ Other:

Shipment Tracking # if applicable (include copy of shipping papers in file)

2. Number of Custody Seals 0 Signed by Date / /

Were custody seals unbroken and intact on arrival? ☐ Yes ☒ No

3. Were custody papers sealed in a plastic bag? ☒ Yes ☐ No

4. Were custody papers filled out properly (ink, signed, etc.)? ☒ Yes ☐ No

5. Did you sign the custody papers in the appropriate place? ☒ Yes ☐ No

6. Was ice used? ☒ Yes ☐ No Type of ice: ☐ blue ice ☐ gel ice ☒ real ice ☐ dry ice Condition of Ice Melting

Temperature by IR Gun 7.2 °C Thermometer Serial # 81500

Acceptance Criteria: 0 - 6°C

7. Packing in Cooler: ☒ bubble wrap ☐ styrofoam ☐ cardboard ☐ Other: Bubble Bags

8. Did samples arrive in plastic bags? ☐ Yes ☒ No

9. Did all bottles arrive unbroken, and with labels in good condition? ☒ Yes ☐ No

10. Are all bottle labels complete (ID, date, time, etc.) ☒ Yes ☐ No

11. Do bottle labels and Chain of Custody agree? ☒ Yes ☐ No

12. Are the containers and preservatives correct for the tests indicated? ☒ Yes ☐ No

13. Is there adequate volume for the tests requested? ☒ Yes ☐ No

14. Were VOA vials free of bubbles? ☒ N/A ☐ Yes ☐ No

If "No" which containers contained "head space" or bubbles?

Log-in Phase:

Date of sample log-in 9/9/09

Samples logged in by (print) C. Hansen (sign) [Signature]

1. Was project identifiable from custody papers? ☒ Yes ☐ No

2. Do Turn Around Times and Due Dates agree? ☒ Yes ☐ No

3. Was the Project Manager notified of status? ☒ Yes ☐ No

4. Was the Lab notified of status? ☒ Yes ☐ No

5. Was the COC scanned and copied? ☒ Yes ☐ No